

Figure 1. Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

TQ: 0-20 Nm

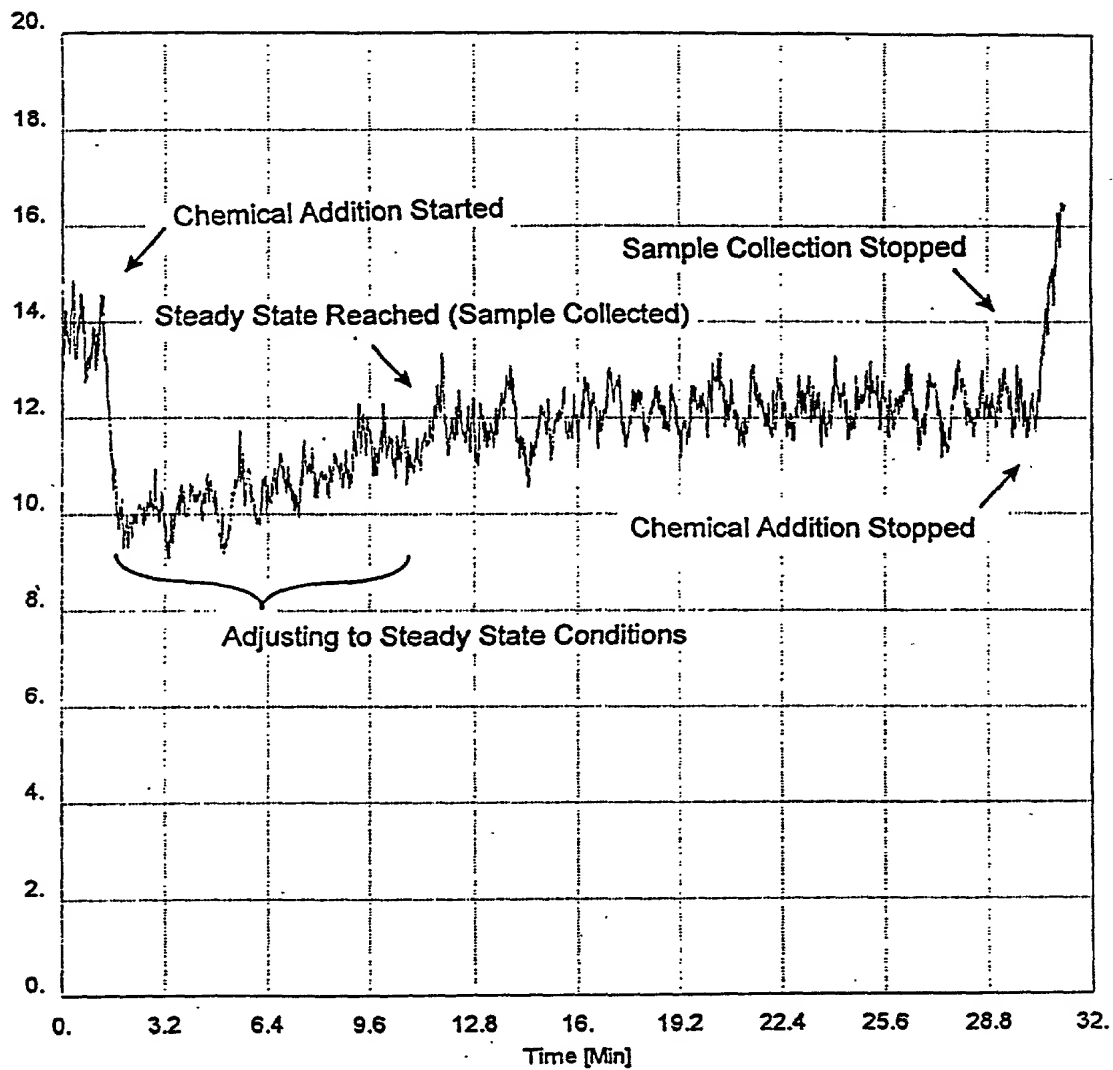


Figure 2. Proton NMR Spectra for PHBV and HEMA Grafted PHBV

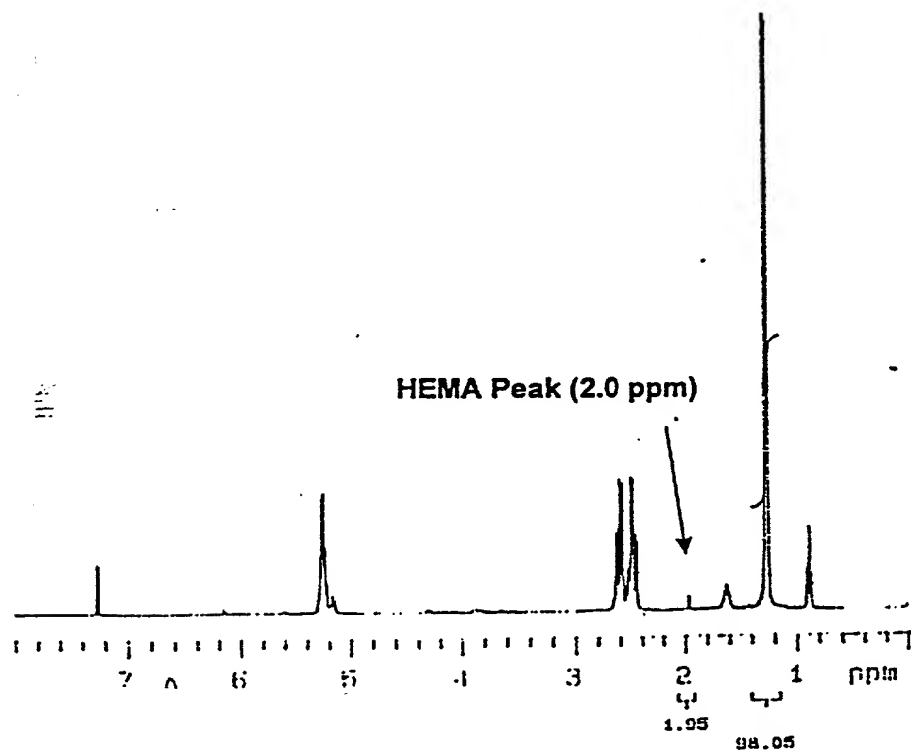
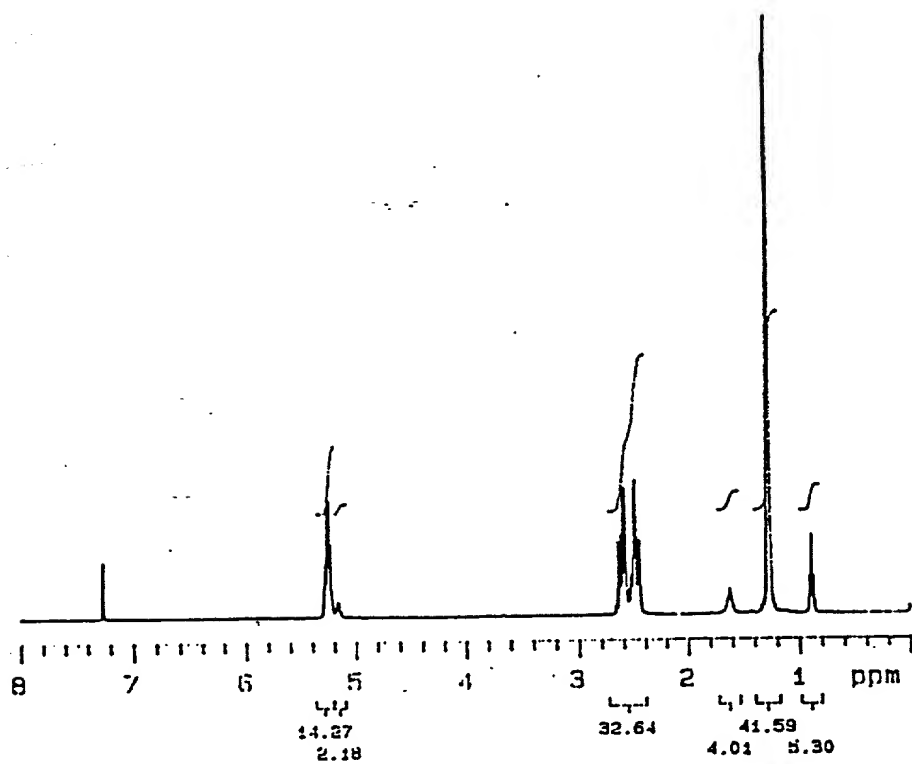


Figure 3 Melt Rheology at 180°C for PHBV and HEMA Grafted PHBV

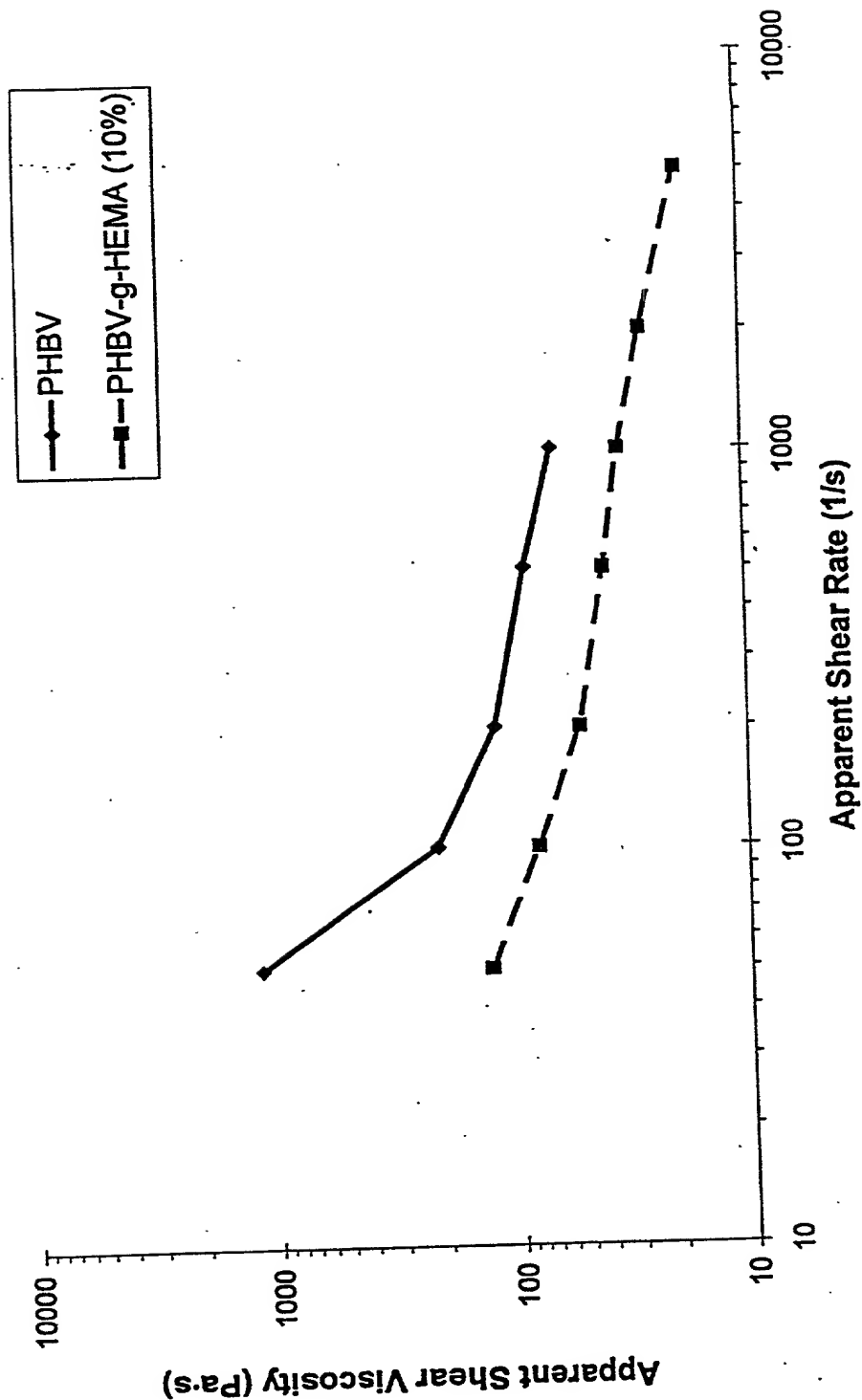
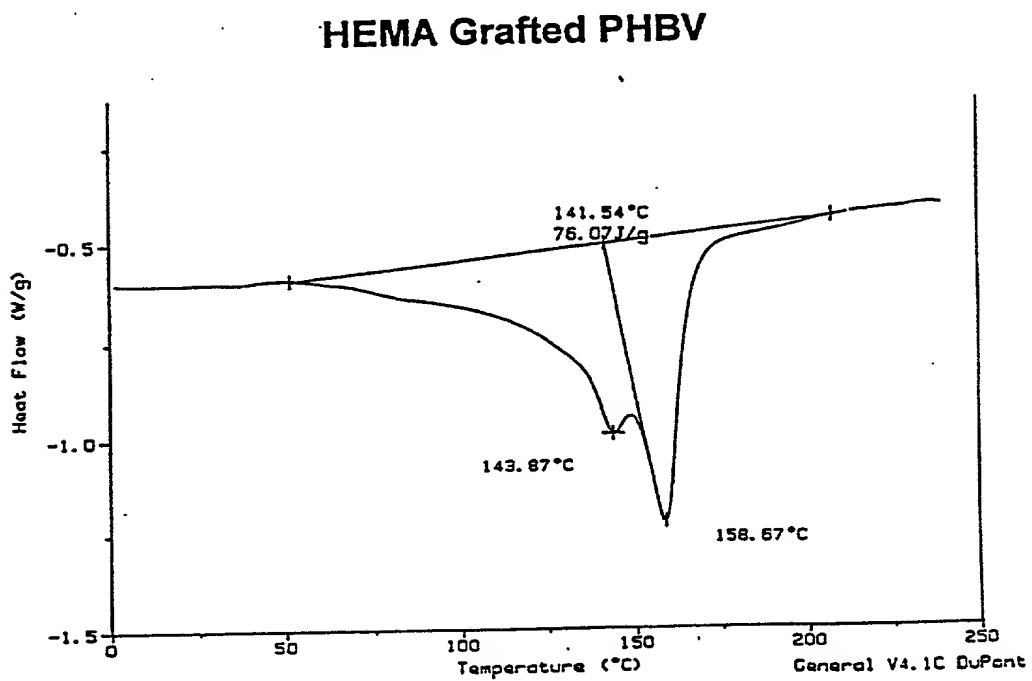
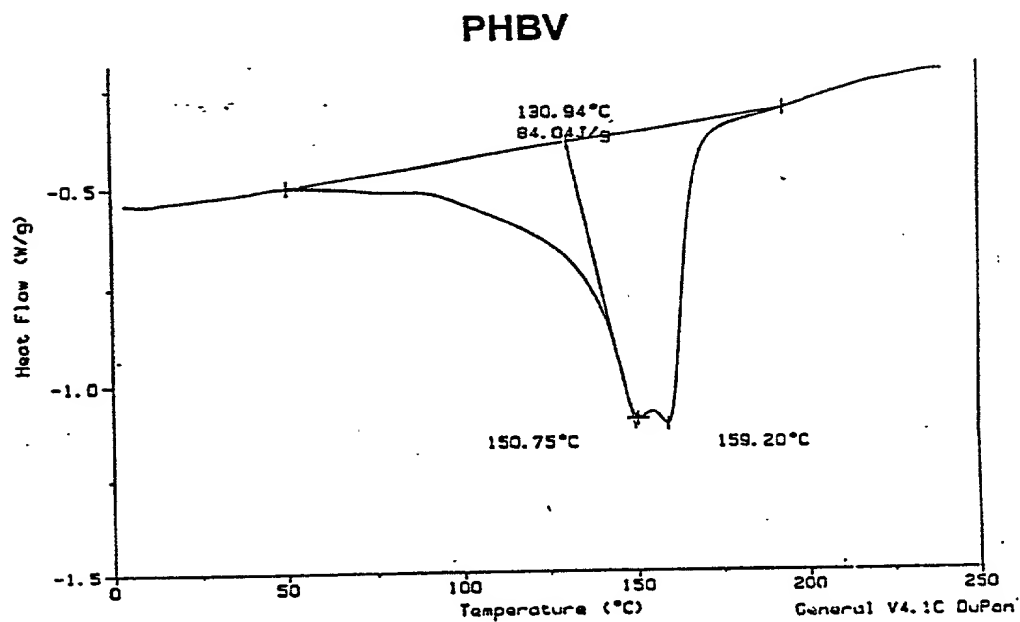


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



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Figure 5 Torque vs. Time Chart for Reactive Extrusion of PBS 1040 with PEGMA on the Haake Extruder

TQ: 0-1500 m.g

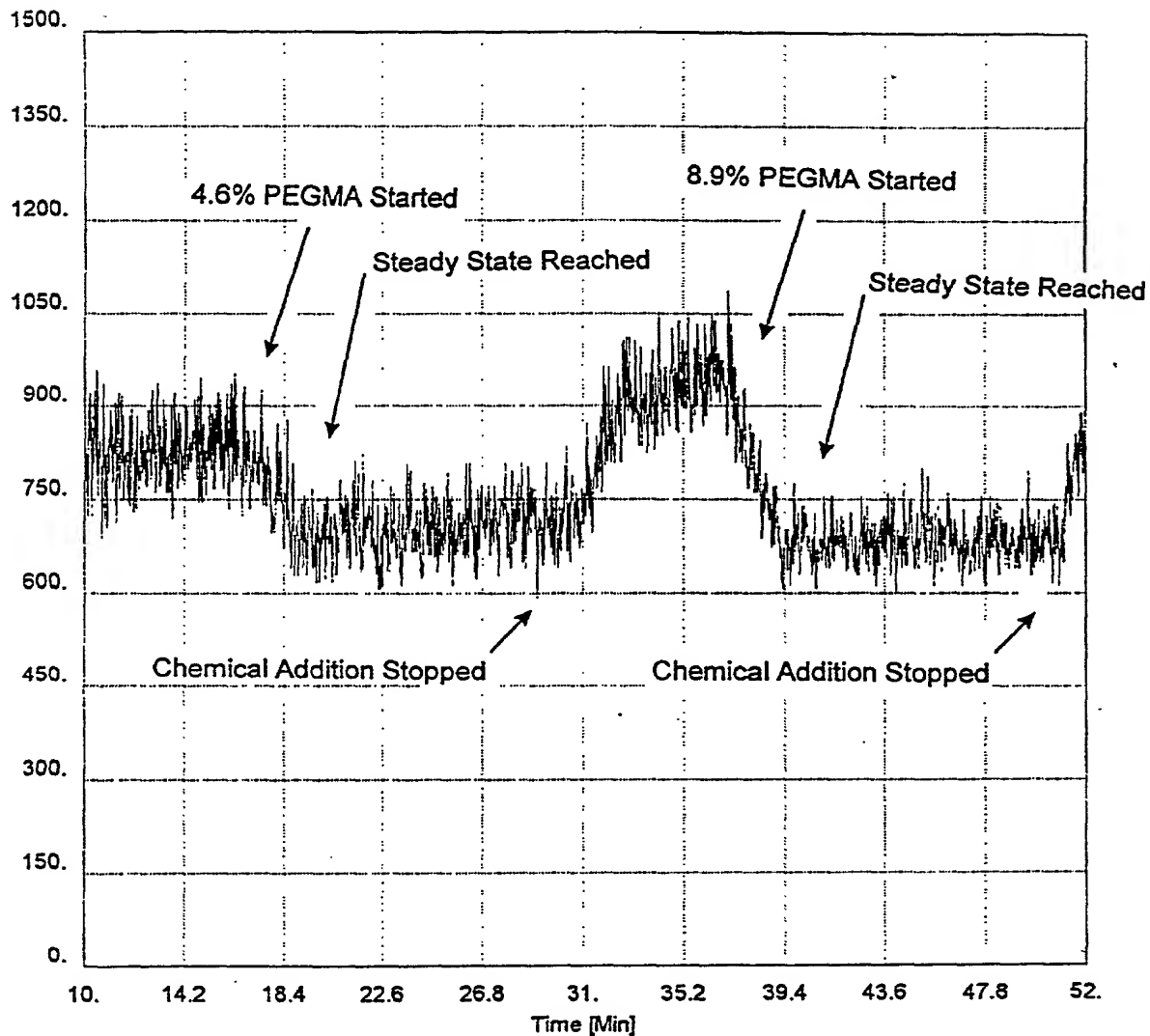


Figure 6 Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040

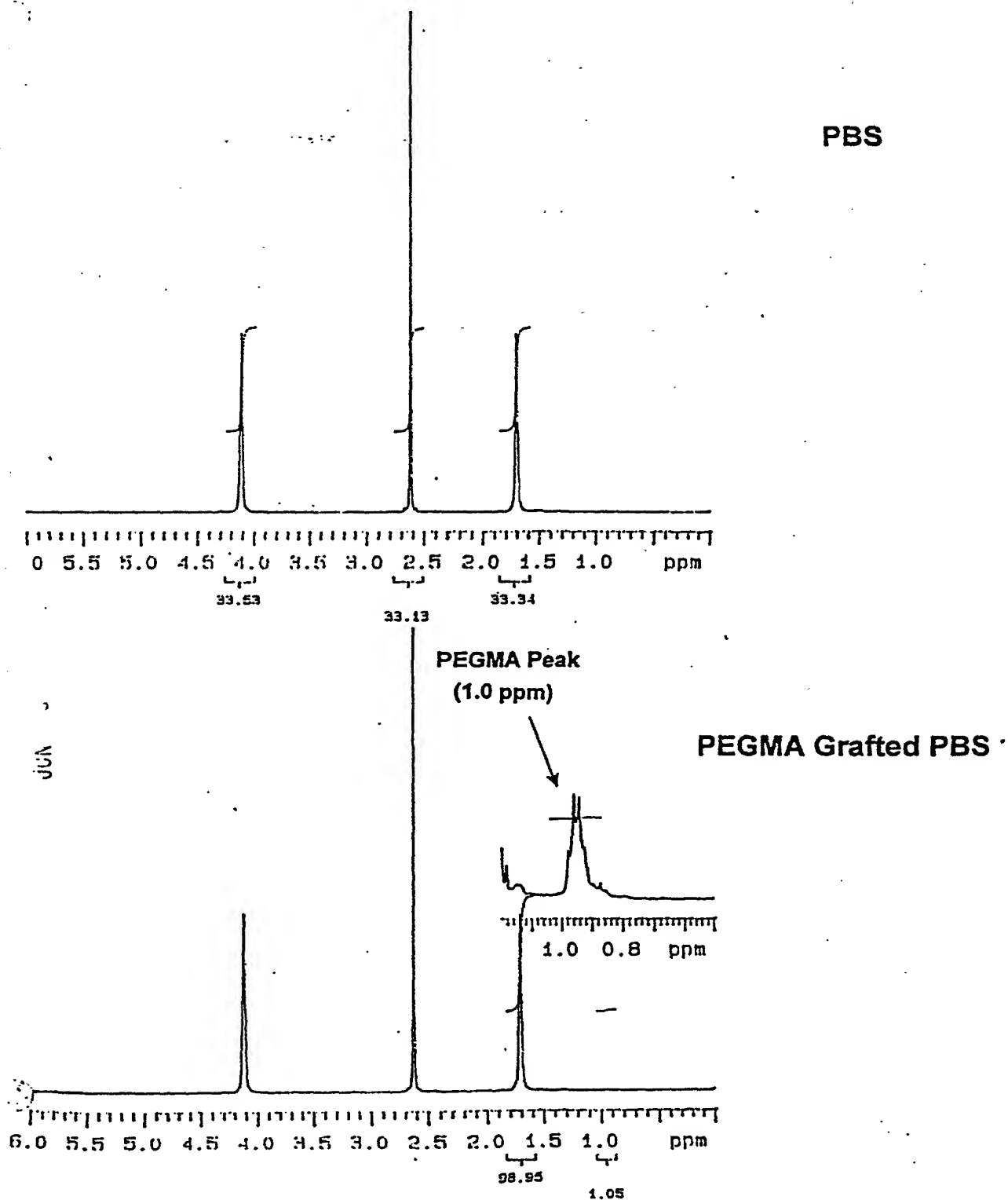
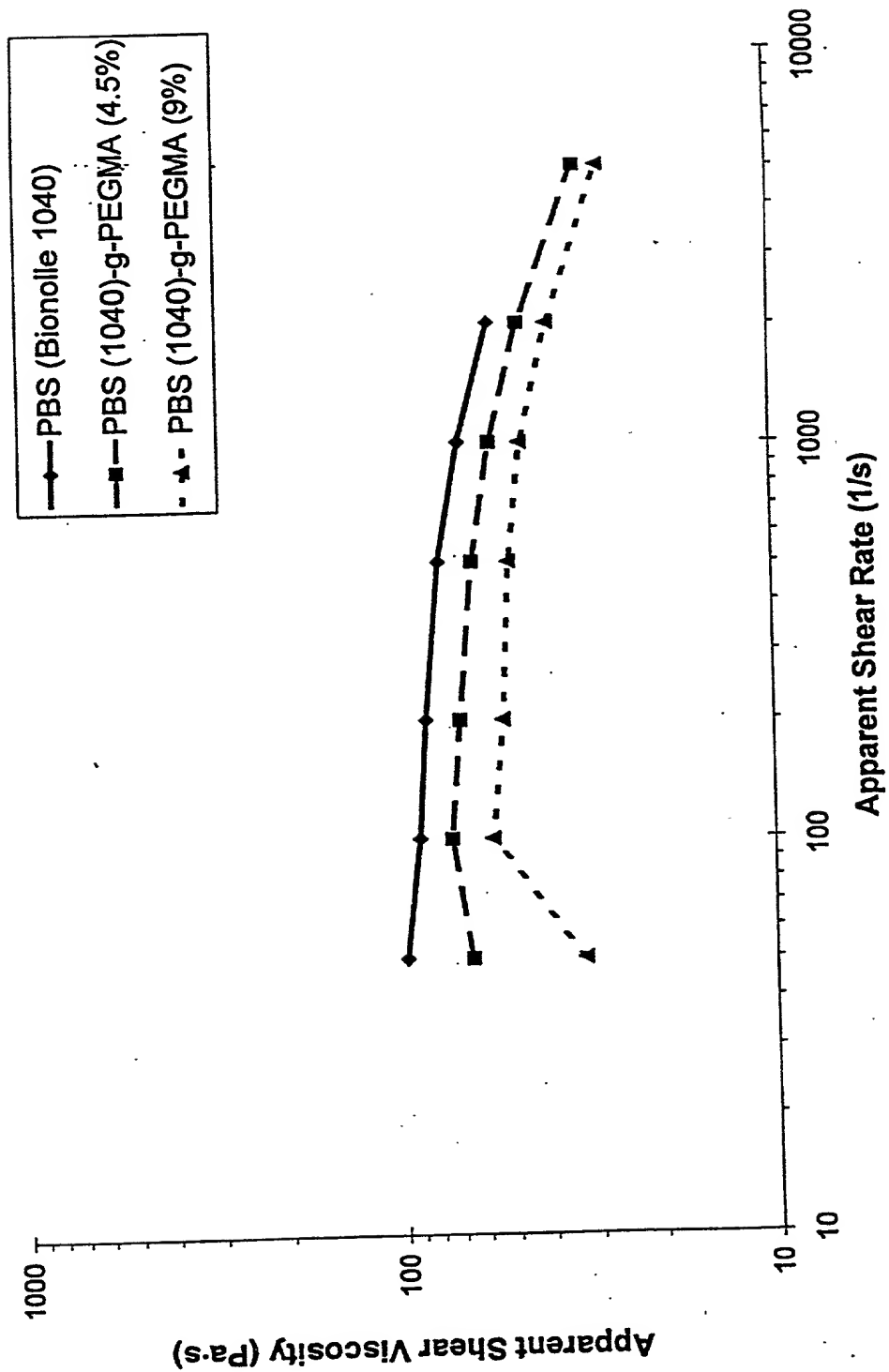


Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)



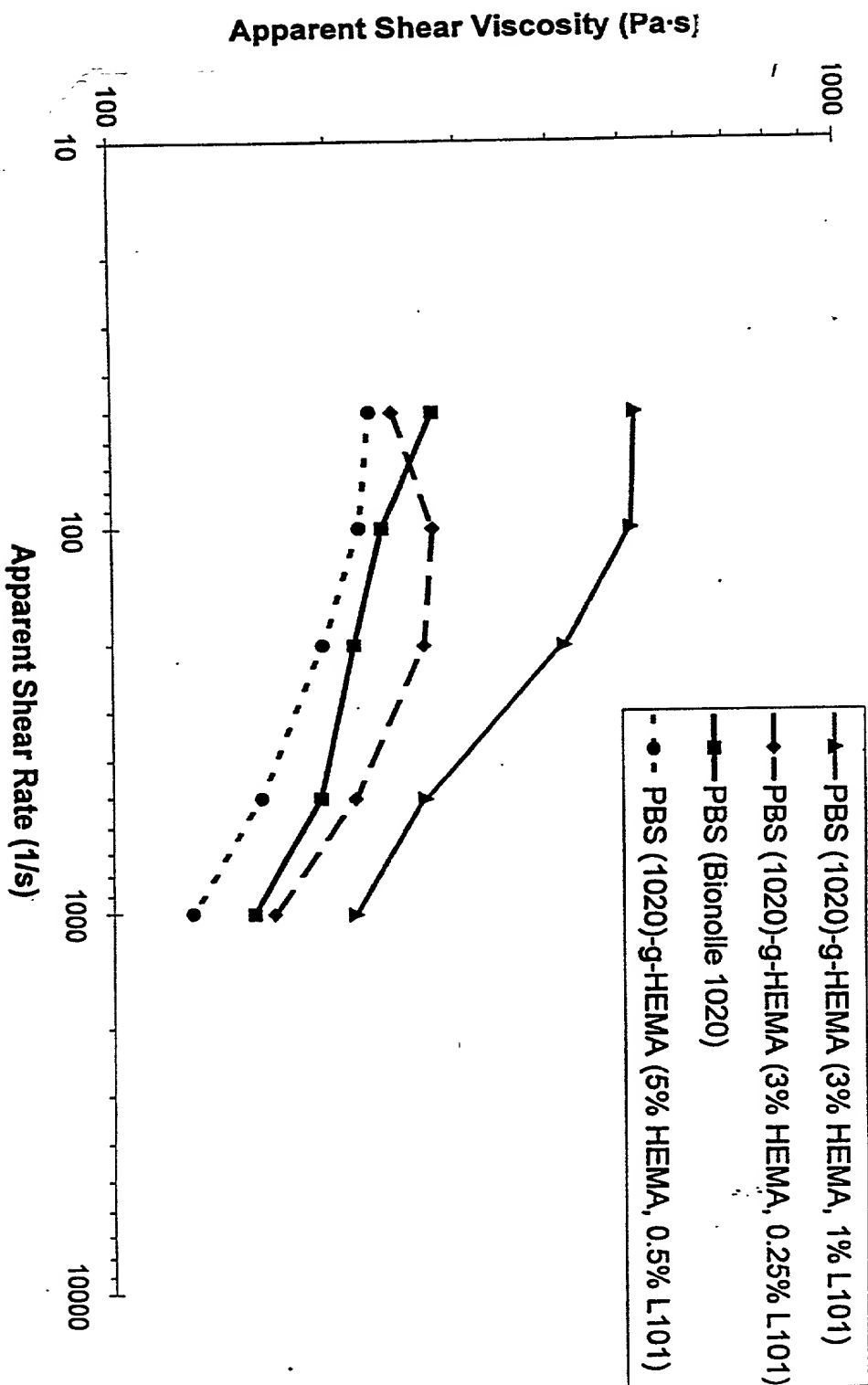


Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

Figure 9 DSC Thermogram for PBS and PEGMA Grafted PBS 1040

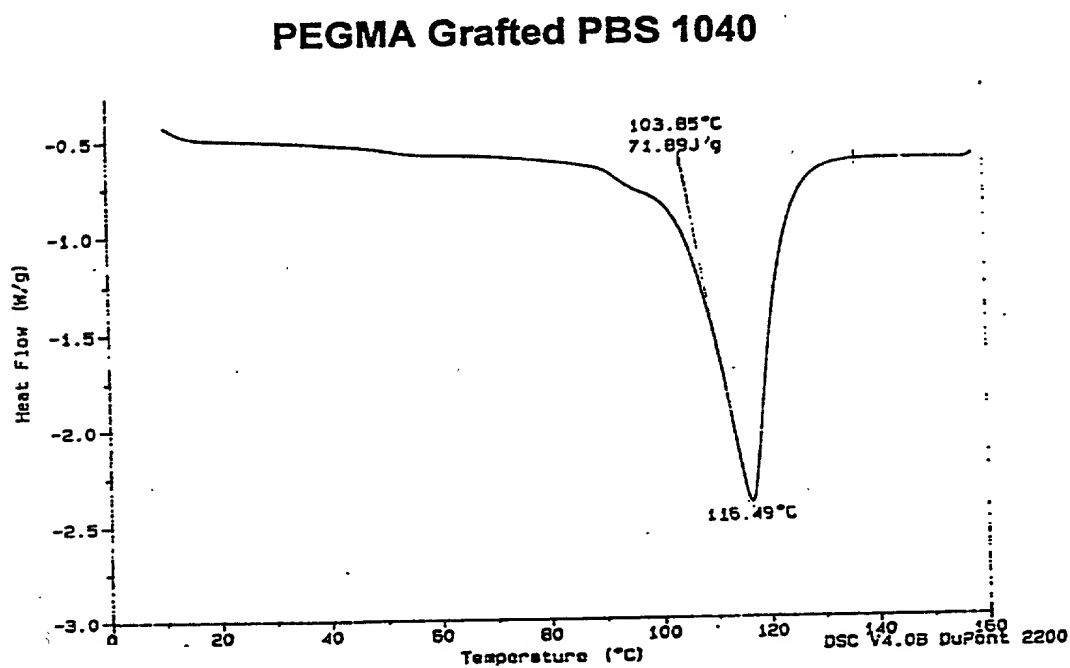
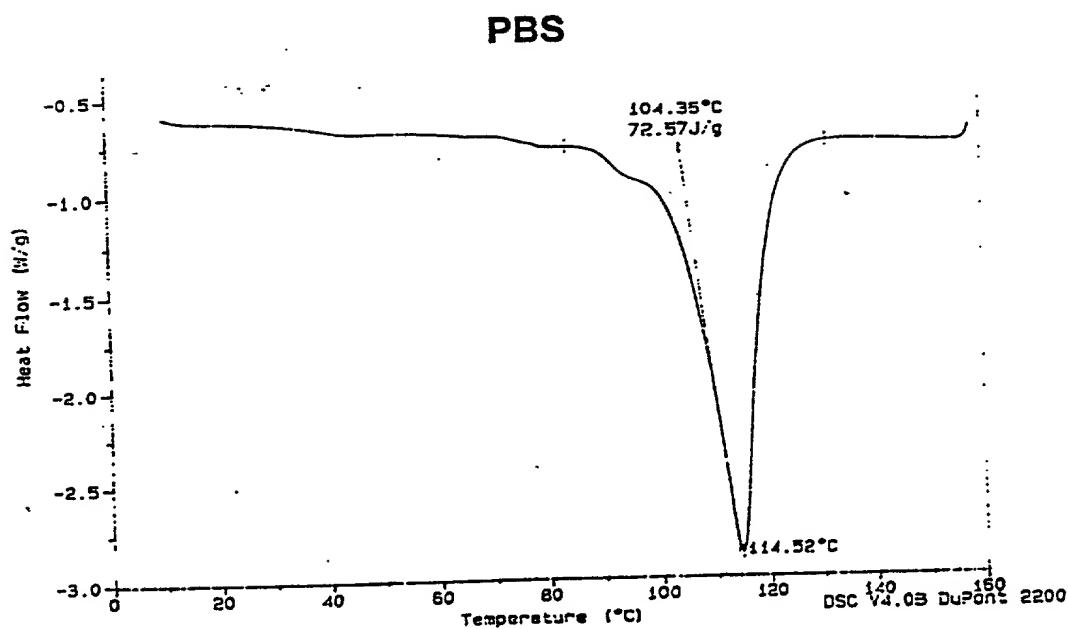


Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020

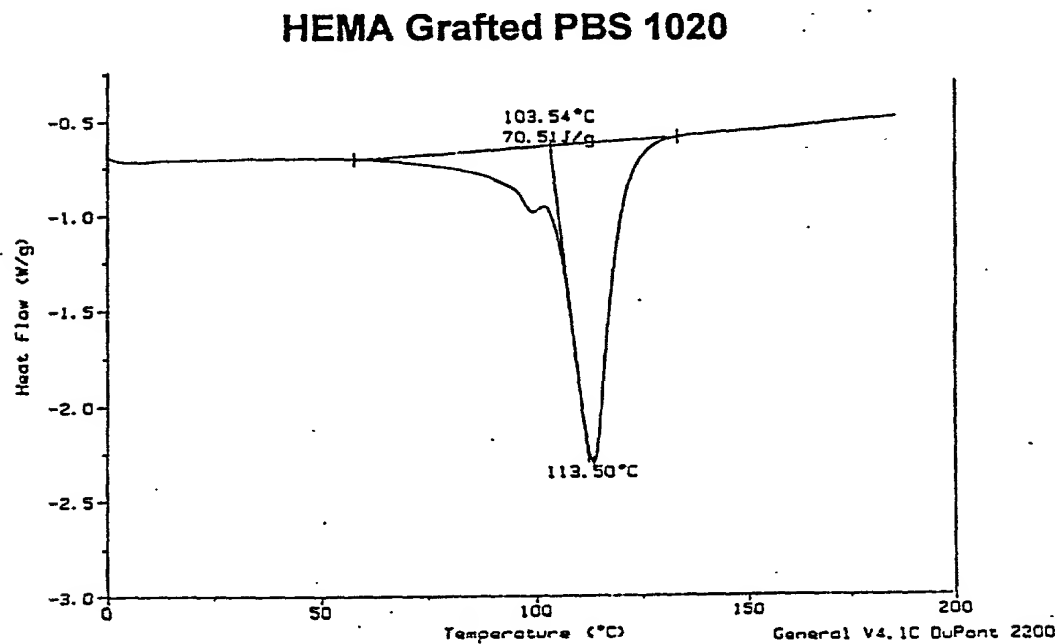
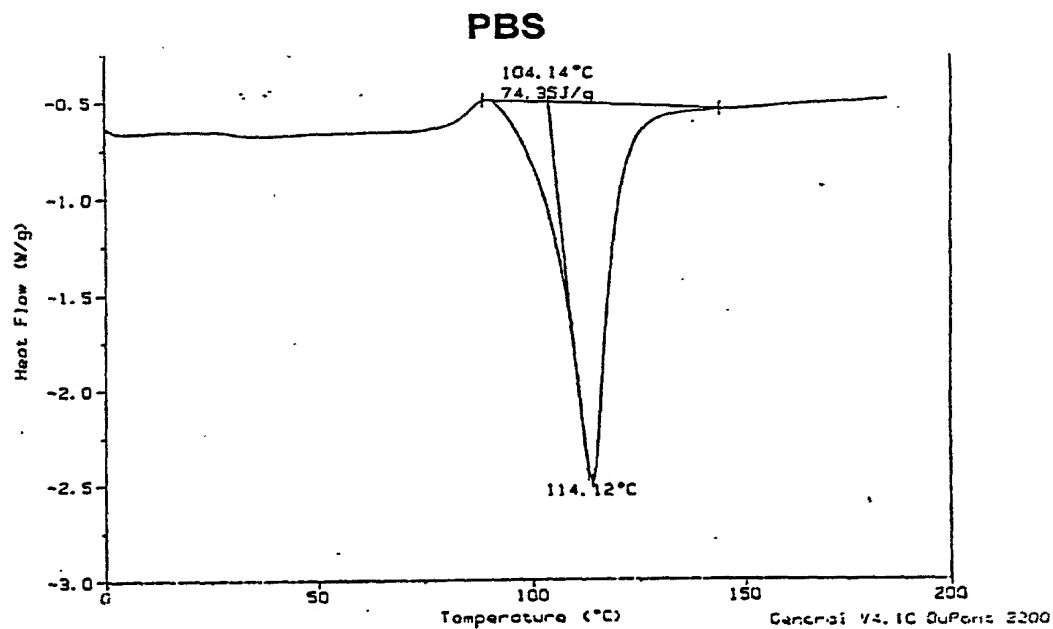


Figure 11

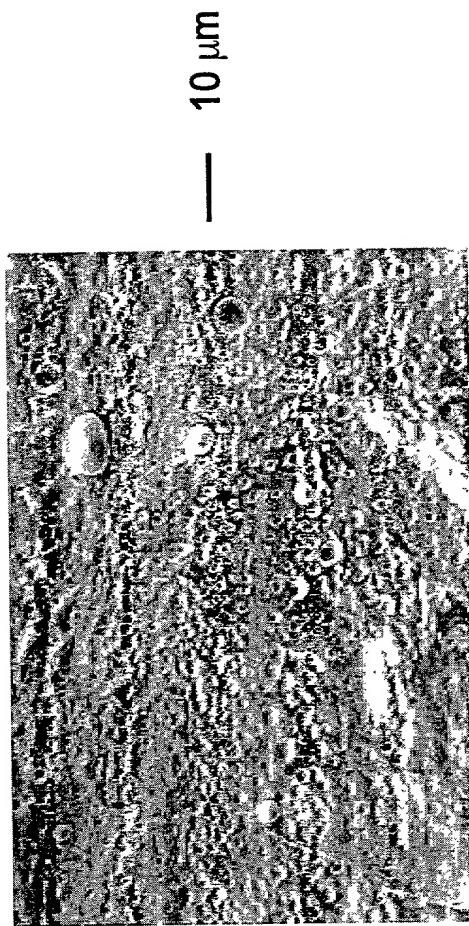
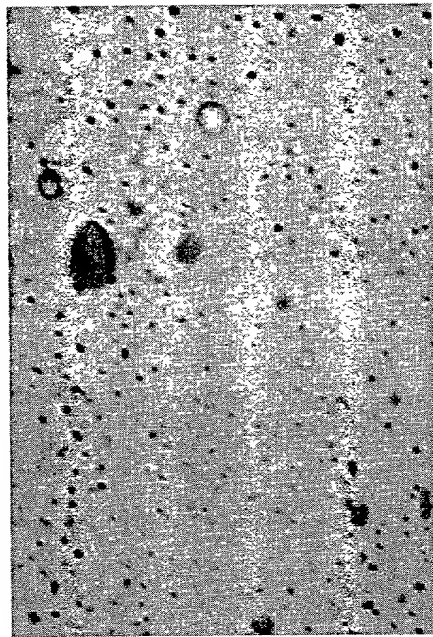


Figure 12



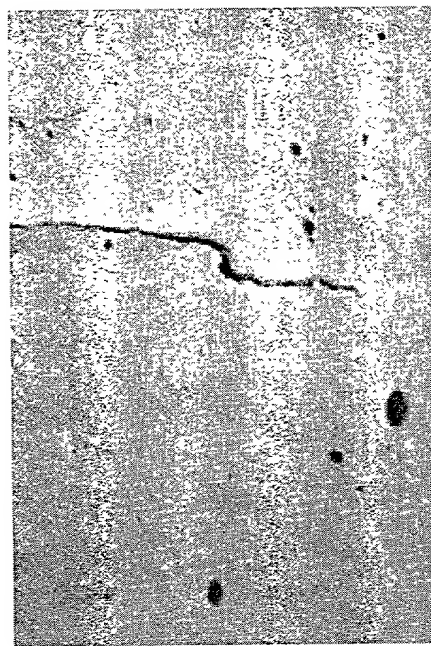
— 10 μ m

Figure 13



— 10 μm

Figure 14



— 10 μ m

Figure 15
 T_m of PEO Phase of Reactive Blends

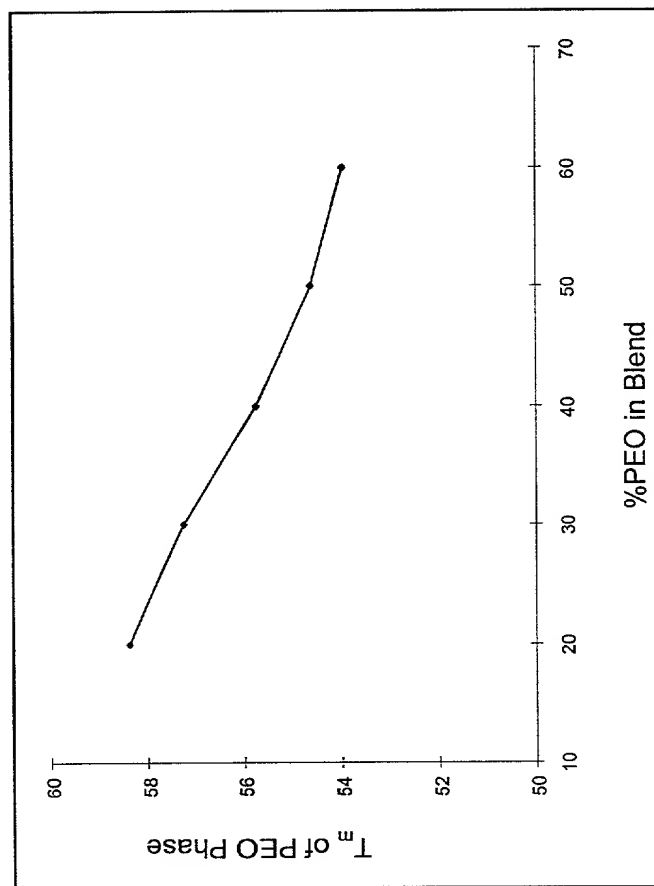


Figure 16

$\Delta T_m = T_m \text{ (PEO Phase of Physical Blends)} - T_m \text{ (Reactive Blends)}$

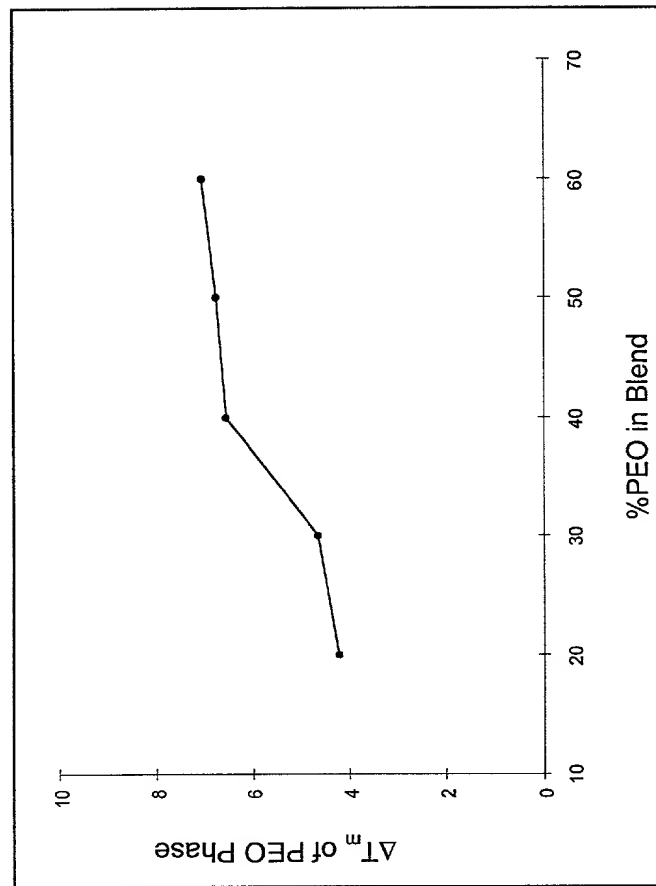
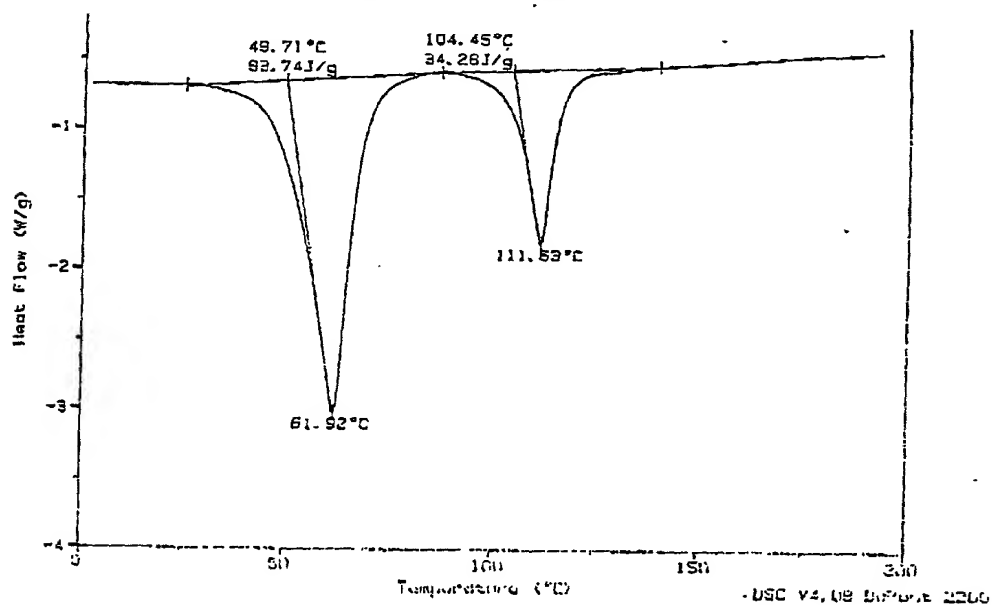
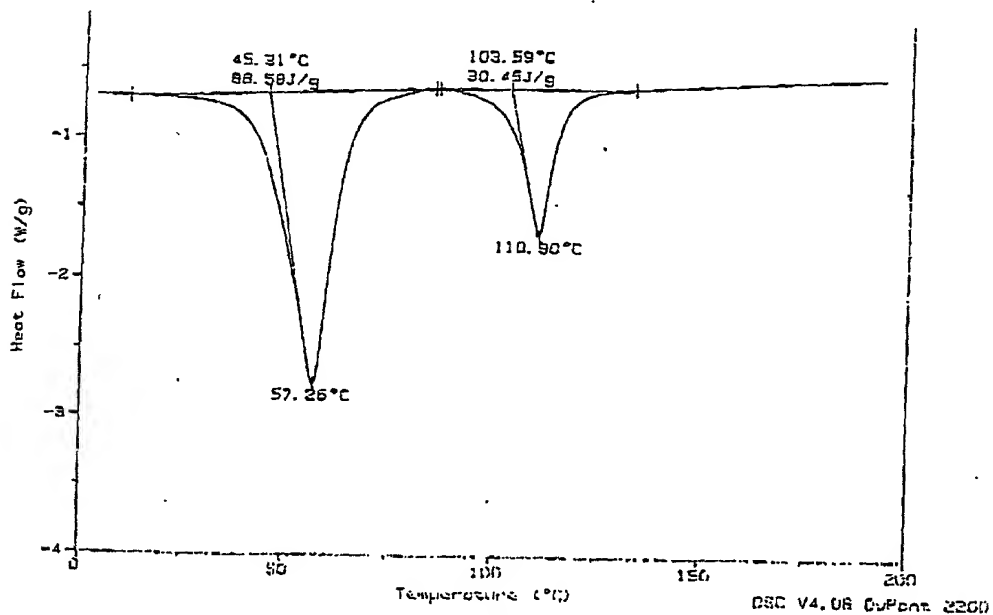


Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends

30/70 PBS/PEO Physical Blend



30/70 PBS/PEO Reactive Blend



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Figure 18 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

